2d. That we lie wholly inactive, except breathing, perspiring, and, perhaps, kicking away the covering!

3d. That there is a difference in climates; that the night air of the eastern coast of America is not the night air of Venice, of Constantinople, of the Society Islands, or even of London!

4th. That the frequent change of the temperature in the night would, even if taking place during the day, be perceptibly felt by every one in full dress and activity.

We might enlarge on these points, but will rest here and leave it to our night air friends to upset our opinion.

In conclusion, we only beg to express our humble advice to those readers who, on one side, have no ventilated apartments, and, on the other, are not obliged to sleep in a room overcrowded with company, and we feel pretty sure in the safety of our advice:-Open your chamber windows after you are dressed in the morning, and shut them down just before you undress for the night, and then go to bed perfectly satisfied that your health is safe with regard to AIR.

Portsmouth, N. H., September, 1860.

[After the sun has set at night, and before it rises in the morning, all air is night air. The question is whether it is best to breathe that which is out of doors or that which we have shut up in our rooms during the day. In the first place, it is to be remarked that exposure of the unprotected body to the cold is injurious, and may very well counteract a portion or even the whole of the good effects of breathing fresh air. But if the system is properly protected from the cold, we have no doubt that a slow change of the air in our rooms, at night, is beneficial. Airthat comes from the lungs is deprived of a considerable portion of its oxygen, and is charged with an extra supply of carbonic acid, which is a deadly poison to everything that breathes the breath of life. Besides this poison, the air from the lungs is full of waste animal matter, which, in densely crowded apartments, collects in such quantities on the walls that it has been scraped off and subjected to a series of experiments. For our own part, when we have breathed a pint of air once, we do not want to draw it into our lungs again until it has been out into the laboratory of nature, and been purified by having its dirty animal matter washed out of it, and its poisonous carbonic acid diffused abroad through the whole ocean of the atmospherc. The world-renowned Dr. Beaumont says: "No matter how bad the air is out of doors, it is always worse in the house."-EDS.

ENTHUSIASTICALLY COMPLIMENTARY.

The annexed letters we select for publication from a number received in two days, last week. They indicate the sentiment of nearly every inventor who has had patent business prosecuted through the Scientific American Patent Agency:-

MESSRS. EDITORS:-A conviction of duty and obligation has been burdening me for some time, in reference to an acknowledgment I deem justly due to the great "American Patent Agency," for the prompt and efficient service rendered in making out specifications, the beautiful drawings of models, and the obtaining numerous patents within two years past, without a single failure. I once thought I could make out my own specifications and drawings, but I am thoroughly convinced it would have been greatly to my disadvantage, had I attempted it. I have often been delighted when a specification has been sent to me for my signature, to discover the tact. skill and talent displayed in the choice of words, and of the phraseology used in describing and making perfectly clear the novel features and new points desired to be brought out. In one or two instances there were important points made clear, that I had not discovered myself in my own model.

I take pleasure, yea, pride in affirming my conviction that the great American Patent Agency, and Scientific AMERICAN, combined, are wholesale benefactors of this entire country, and of inventors in particular. The Scripture affirmation is that the truly benevolent or christian man "seeks his neighbor's wealth." There is a justifiable pleasure and pride in doing good to others, in lightening the burdens of this life, and causing prosperity and good cheer to spring up almost unexpectedly in thousands of widely separated families. The golden sands of useful truths and of scientific facts come tumbling along

every week from the Scientific American into our families, to such an extent and of such a character that I often regret that every progressive family (or susceptithat "the greatest discoveries have been made in leaving the heaten tracks of science and going into the hypaths." struck me as a useful fact, and is "an apple of gold in a picture of silver." I wish to say further, as facts are what we have to do with to a great extent, that my transactions with the Scientific American Patent

me that my patent is ordered to be issued. This is the more gratifying as I have this day made a successful watchmakers decapitation. trial of the horse rake; it works to a charm. From 6 to 12 pounds is all the power necessary to be applied living at Chatham Four Corners, in this State, received with the foot. A boy 12 years old can work it with ease. Please accept my thanks for your numerous favors:

J. C. STODDARD.

Worcester, Mass., Sept. 5, 1860.

MESSRS. EDITORS:-Allow me to thank you for the assistance you have rendered Mr. Littlepage and myself by inserting in your columns the article in regard to the tests of water wheels. We regard it as another evi-

1st. Of your aim to publish correct data only, and to lay doubtful information, from whatsoever source, open to correction; truth suffering nothing from investigation and discussion.

2d. That you will extend even justice to all, though unknown and from "Texas."

You can hardly be aware how cheering it is to a poor inventor, accustomed to meet with a doubtful shrug of the shoulder in the way of assistance, to find that with MUNN & Co., at least, he stands on the same footing by the ablest physiologists of France, Germany, Engwith a "nabob," and will find such protection as evenhanded justice would dictate and the pubilc interest will

Many a struggling inventor would gather strength from this knowledge, to overcome the many difficulties he encounters in mounting the first round of the ladder

To this I would add my feeble testimony in stating that inventors need not fear of being led on or encouraged by your establishment to spending their money in the pursuit of inventions such as, in your opinion, would not remunerate the applicant. At least several of mine, of doubtful nature, have been returned to me with the advice to experiment with them, simplify them, and to test them as to their value and usefulness, &c.

When it is remembered that an inventor is generally slow-very slow-in discovering the defects of his own productions, such disinterested advice cannot be too highly appreciated, although it may tear down "castles built in the air," and thereby prevent greater disappointments and loss of money. ROBERT CREUZBAUR.

Austin City, Texas, Sept. 5, 1860.

Messrs. Munn & Co.-I am happy to inform you that my Letters Patent have just been received from Washington, for my improved buggy plow; and you will please accept my sincere thanks for the very prompt and efficient manner in which you conducted my case at the Patent Office. I would further say, that you have secured all my business at the Patent Office for the future, and that of all my friends, as long as you conduct business as satisfactorily as in the present case.

EDWIN J. FRASER

Kansas City, Mo., Oct. 4, 1860.

MESSES. MUNN & Co.-We have received our Letters Patent from Washington. Just one month from the time we acknowledged our papers and forwarded them to you, we were in receipt of our patent deeds. This, as well as other business we have had with you, was promptly attended to, and increases our confidence in your agency, so that we shall endeavor to increase your list of clients, and engage your able counsel in all cases of the same kind we may have hereafter. For your energy and prompt attention to our case, you will please accept our most sincere thanks.

G. W. & J. J. Kersey.

Beartown, Pa., Oct. 5, 1860.

A COLUMN OF VARIETIES.

The special correspondent of the London Times gives an amusing account of the attempts of the Chinese to ble of being made progressive) could not be furnished work the engines of the Cormorant, the British vessel with the perusal of its luminous pages. The sentiment sunk last year in the Pei-ho. The Chinese, it seems, advanced in one of the back numbers of your journal, succeeded in raising the sunken vessel. They then built a boat, into which they transferred the Cormorant's engines. But alas! they would not work, and no one could set them going. So Sang-holin-sin sent down four watchmakers from Pekin. "You are accustomed to machines," said he; "set that barbarian machine moderate prices and fair dealing have characterized all to work or I will cut off your heads." The unhappy watchmakers succeded in lighting the fires and inducing the smoke to ascend through the funnel. This seems I am in the receipt, this day, of your note informing to have contented their taskmaster, for, though the engines are not working, we have no account of the

> In 1842 an Irish boy by the name of John Kelley, a gun shot wound in the shoulder, and the surgeon who dressed the wound, though he felt the ball with his probe did not deem it prudent to remove it. On the 15th of June last, the boy, (of course become a middle aged man), died in Clinton county, and on the post mortem examination the hall was found embedded in his heart where it had been carried 18 years.

> Professor Newton of Yale College, has a long article in Silliman's Journal, on the great meteor which flashed over this city on the 15th of last November. From a comparison of all the testimony, he comes to the conclusion that its velocity must have been greater than 21 miles in a second, from which it would follow that the body could not have been a little moon revolving around our earth, nor even a planet revolving around the sun. but that it must have come from the depths of space beyond the boundaries of the solar system.

> A scries of investigations extending through the last 20 years, and conducted in the most careful manner, land and America, have demonstrated that the liver of man, as well as that of most other animals, secretes sugar from substances brought to it by the blood, and it is found that the liver continues to produce sugar some 24 hours after death; even when the organ is removed from the system.

It is found that for persons to acquire the wonderful dexterity exhibited by our telegraph operators, it is necessary that they should begin to learn the art while they are young. Dispatches are transmitted about as fast as a man can write, and the operator reads them by listening to the clicking of the instrument, writing the words down as they are received. Reading by the ear is found to engender fewer mistakes than the old recording process.

On the 17th of July, a great meteor fell in India. It is described in a letter to the English papers as having produced a noise as if all the artillery in India had been discharged at once, and the writer says that he actually thought the mountains were falling down. He saw a piece fall, and sent some Sepoys to dig it up. They found it buried three and-a-half feet in the ground, and so intensely cold that they could not bear their hands on

A man in Iowa, not far from Mercer county, Missouri, being annoyed very much with persons stealing watermelons, put poison in some of them. Five men who went into the enclosure, got hold of some of these poisonous melons, ate three of them, and three of the party were found dead in the enclosure, and two just outside.

Howe's standard scales at the State Fair in Maine, weighed 3,820 persons, the women averaging 126 pounds 5 ounces, and the men 152 pounds. This shows the women of Maine to weigh 9 pounds 7 ounces, and the men 5 pounds 3 ounces more than in Massachusetts, by the specimens weighed in the Mechanics' Fair.

Sulphurous acid, though extremely volatile, will not evaporate in a platina crucible previously heated rea hot. If, however, a few drops of water are thrown in. the mixture is brought into intimate contact with the sides of the vessel, and such is the energy of the evaporation of the acid and its absorption of all the heat the water, that the latter will not only be left behin but perfectly frozen in the red hot crucible, from which it may be thrown out as a button of ice.

The richest man in Great Britain is the Marqui-Westminster, whose annual income is about \$7,000,0